

FORM PTO-1390

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE

ATTORNEY DOCKET NUMBER

LSP-0010

TRANSMITTAL LETTER TO THE UNITED STATES
DESIGNATED/ELECTED OFFICE (DO/EO/US)
CONCERNING A FILING UNDER 35 U.S.C. 371

U.S. APPLICATION NO (if known see 37 C.F.R. 1.5)

09/830591

INTERNATIONAL APPLICATION NO.
PCT/EP99/08089

INTERNATIONAL FILING DATE
26 October 1999

PRIORITY DATE CLAIMED
29 October 1998

TITLE OF INVENTION **CONVERTER APPLIANCE CAPACITOR ASSEMBLY**APPLICANT(S) FOR DO/EO/US **Rodscha DRABON, Manfred ZENGERLE and Johannes SCHOLTEN**

Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:

1. ☒ This is a **FIRST** submission of items concerning a filing under 35 U.S.C. 371.
2. ☐ This is a **SECOND** or **SUBSEQUENT** submission of items concerning a filing under 35 U.S.C. 371.
3. ☒ This express request to begin national examination procedures (35 U.S.C. 371(f)) at any time rather than delay examination until the expiration of the applicable time limit set in 35 U.S.C. 371(b) and PCT Articles 22 and 39(1).
4. ☒ A proper Demand for International Preliminary Examination was made by the 19th month from the earliest claimed priority date.
5. ☒ A copy of the International Application as filed (35 U.S.C. 371(c)(2)).
 - a. ☐ is transmitted herewith (required only if not transmitted by the International Bureau).
 - b. ☒ has been transmitted by the International Bureau.
 - c. ☐ is not required, as the application was filed in the United States Receiving Office (RO/US)
6. ☒ A translation of the International Application into English (35 U.S.C. 371(c)(2)).
7. ☐ Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))
 - a. ☐ are transmitted herewith (required only if not transmitted by the International Bureau).
 - b. ☐ have been transmitted by the International Bureau.
 - c. ☐ have not been made; however, the time limit for making such amendments has NOT expired.
 - d. ☒ have not been made and will not be made.
8. ☐ A translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).
9. ☐ An oath or declaration of the inventor(s) 35 U.S.C. 371(c)(4).
10. ☐ A translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).

Items 11. to 16. below concern other document(s) or information included:

11. ☐ An Information Disclosure Statement under 37 CFR 1.97 and 1.98.
12. ☐ An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.
13. ☒ A FIRST preliminary amendment.
☐ A SECOND or SUBSEQUENT preliminary amendment.
14. ☐ A substitute specification.
15. ☐ A change of power of attorney and/or address letter.
16. ☒ Other items or information:
- A copy of the Published PCT Application by WIPO under WO 00/27020, including the Search Report and references cited
- A copy of the International Preliminary Examination Report, including amended claims 1 and 2 under Article 34.

EXPRESS MAIL Mailing Label No. **EL531174124US**Date of Deposit: **April 27, 2001**

I hereby certify that this paper or fee is being deposited with the
United States Postal Service "Express Mail Post Office to
Addressee" service under 37 CFR 1.10 on the date indicated
above and is addressed to the Assistant Commissioner for Patents,
Washington, D.C. 20231

MAILER John HillSIGNATURE *John Hill*

U.S. APPLICATION NO. (if known 37 CFR 1.5)

09/830591

INTERNATIONAL APPLICATION NO.
PCT/EP99/08089

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LSP-0010

17. ☒ The following fees are submitted:

Basic National Fee (37 CFR 1.492(a)(1) - (5)):

Neither international preliminary examination fee (37 CFR 1.482)
nor international search fee (37 CFR 1.445(a)(2)) paid to USPTO
and International Search Report not prepared by the EPO or JPO.....\$1,000.00

International preliminary examination fee (37 CFR 1.482 not paid to USPTO
but International Search Report has been prepared by the EPO or JPO.....\$860.00

International preliminary examination fee (37 CFR 1.482) not paid to USPTO but
international search fee (37 CFR 1.445(a)(2)) paid to USPTO.....\$710.00

International preliminary examination fee paid to USPTO (37 CFR 1.482) but
all claims did not satisfy provisions of PCT Article 33(1)-(4).....\$690.00

International preliminary examination fee paid to USPTO (37 CFR 1.482) and
all claims satisfied provisions of PCT Article 33(1)-(4).....\$100.00

ENTER APPROPRIATE BASIC FEE AMOUNT =

\$860.00

Surcharge of \$130.00 for furnishing the oath or declaration later than _ 20 _ 30 months from
the earliest claimed priority date (37 CFR 1.492(e)).

\$

Claims	Number Filed	Number Extra	Rate		
Total claims	7- 20 =	0	X \$18.00	\$	
Independent Claims	1- 3 =	0	x \$80.00	\$	
Multiple dependent claims(s) (if applicable)			+ \$270.00	\$	

TOTAL OF ABOVE CALCULATIONS =

\$860.00

Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above are
reduced by 1/2.

\$

SUBTOTAL =

\$860.00

Processing fee of \$130.00 for furnishing the English translation later than the _ 20 _ 30 months
from the earliest claimed priority date (37 CFR 1.492(f)).

\$

TOTAL NATIONAL FEE =

\$860.00

Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be
accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property

+

TOTAL FEES ENCLOSED =

\$860.00

Amount to be:
refunded

\$

charged

\$

a. ☒ A check in the amount of \$ 860.00 to cover the above fee is enclosed.

b. ☐ Please charge my Deposit Account No. 23-3050 in the amount of \$ _____ to cover the above fees. A duplicate copy of this sheet is enclosed.

c. ☒ The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 23-3050. A duplicate copy of this sheet is enclosed.

NOTE: Where an appropriate time limit under 37 CFR 1.494 or 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the application to pending status.

SEND ALL CORRESPONDENCE TO:

Steven B. Samuels
Woodcock Washburn Kurtz
Mackiewicz & Norris LLP
One Liberty Place - 46th Floor
Philadelphia, PA 19103
(215) 568-3100

SIGNATURE

Steven B. Samuels

NAME

37,711

REGISTRATION NUMBER

DOCKET NO.: LSP-0010

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re patent application of:

Rodscha DRABON, Manfred ZENGERLE and Johannes SCHOLTEN

International Application No.: PCT/EP99/08089

International Filing Date: 26 October 1999

For: CONVERTER APPLIANCE CAPACITOR ASSEMBLY

Assistant Commissioner of
Patents & Trademarks
Washington, DC 20231

Sir:

PRELIMINARY AMENDMENT

Prior to examination of the above-referenced patent application, please make the following amendments and consider the following remarks.

In the Specification:

At page 1, change the title to CONVERTER APPLIANCE CAPACITOR ASSEMBLY

Replace the paragraph at page 1 , lines 5-8 with the following paragraph:

--The invention relates to a converter appliance capacitor assembly which has at least one capacitor and can be attached by means of side mechanical holders to a base frame of the converter appliance or to a heat sink.--

At page 1, after line 23, insert the following paragraphs:

-A modular system for forming converter appliances of different power and with different types of cooling is known from DE 196 28 549 A1. In this case, a large number of individual capacitors are combined to form capacitor groups and are attached via holding plates to the cooler of the converter appliance.

A circuit arrangement for operation of at least one battery-powered electric motor in an industrial truck is known from DE 44 12 407 A1. In this case, at least one row of capacitors is arranged on a mounting body, which is connected to the cooler of a converter appliance.

A power converter having a capacitor assembly is known from US 5,729,450. In this case, a large number of individual capacitors are attached by means of side holding plates to the frame of the converter. The electrical connections arranged on the front faces of the capacitors are connected to busbars.--

Replace the paragraphs at page 1, lines 24-36 and page 2, lines 1-18 with the following paragraphs:

--The invention is based on the object of specifying a converter appliance capacitor assembly, which allows the converter appliance to have an extremely compact design.

This object is achieved by a converter appliance capacitor assembly which is designed as a load-bearing component of the converter appliance and has at least one front or side mechanical electrical connection and measurement sensor holder for making contact with external power connections, such as an electrical power supply and load connections.

The advantages which can be achieved by the invention are, in particular, that the proposed converter appliance capacitor assembly makes it possible to design a converter appliance

such that space is saved, the weight is reduced and costs are reduced. Since the converter appliance capacitor assembly is itself designed as the load-bearing component of the converter appliance, there is no need whatsoever for the mechanical supporting and auxiliary frames which are normally generally used for converter appliances. A further advantage is that the converter appliance capacitor assembly can be disassembled for recycling.

One advantageous refinement of the invention is for at least one electronic circuit - preferably a drive circuit for power semiconductors - to be attached to the front mechanical holder. This embodiment assists the idea of the invention of allowing the capacitor assembly to be designed as compactly as possible.--

At page 2, delete lines 20-32 and replace with the following paragraph:

-- The mechanical holder can be arranged at the front or side with respect to the capacitor. Depending on the spatial requirements, it may in this case be advantageous for a number of individual holders to be provided at the side of the capacitor. This means that the converter appliance capacitor assembly according to the invention can be used for a large number of spatial requirements.--

In the claims:

Please amend claims 1-4 as follows:

1. (Amended) A converter appliance capacitor assembly which has at least one capacitor (1) and can be attached by means of side mechanical holders (2, 3) to a base frame (4) of the converter appliance or to a heat sink (12), characterized in that the converter appliance capacitor assembly is designed as a load-bearing component of the converter appliance and has at least one

front or side mechanical electrical connection and measurement sensor holder (5) for making contact with electrical power connections, such as an external power supply and load connections.

2. (Amended) The converter appliance capacitor assembly as claimed in claim 1, characterized in that at least one electronic circuit (9) - preferably a drive circuit for power semiconductors (11) - is attached to the front mechanical holder (5).

3. (Amended) The capacitor assembly as claimed in claim 1, characterized in that the mechanical holder (5) is provided at the front with respect to the capacitor (1).

4. (Amended) The capacitor assembly as claimed in claim 1, characterized in that the mechanical holder (5) is arranged at the side on the capacitor (1), for attachment of the electrical connections.

Please add claims 6 and 7 as follows:

6. The capacitor assembly as claimed in claim 2, characterized in that the mechanical holder (5) is provided at the front with respect to the capacitor (1).

7. The capacitor assembly as claimed in claim 2, characterized in that the mechanical holder (5) is arranged at the side on the capacitor (1), for attachment of the electrical connections.

REMARKS

Early consideration and allowance of the above-referenced patent application is respectfully requested.

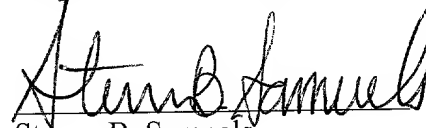
Claims 1-4 have been amended. Claims 6 and 7 have been added. The specification and the title have also been amended.

No new matter has been entered. None of the amendments are submitted for reasons of patentability.

Attached hereto is a marked-up version of the changes made to the claims by the current amendment. The attached page is captioned "**Version with markings to show changes made.**"

Date: April 27, 2001

Respectfully submitted,



Steven B. Samuels

Registration No. 37,711

WOODCOCK WASHBURN KURTZ
MACKIEWICZ & NORRIS
One Liberty Place - 46th Floor
Philadelphia, PA 19103
(215) 568-3100

VERSION WITH MARKINGS TO SHOW CHANGES MADE

In the Specification:

The title has been changed and paragraphs have been replaced, added or deleted as indicated in the Preliminary Amendment.

In the claims:

Claims 6 and 7 have been added.

Claims 1-4 have been amended as follows:

1. (Amended) A converter appliance capacitor assembly [for a converter appliance having a] which has at least one capacitor (1) [which] and can be attached by means of side mechanical holders (2, 3), to a base frame (4) of the converter appliance or to a heat sink (12) [and which has an additional front mechanical holder (5) for attachment of at least one electrical connection (6) of the converter appliance and of at least one measurement sensor, in particular of a current transformer (7) and/or voltage transformer (8)] ,characterized in that the converter appliance capacitor assembly is designed as a load-bearing component of the converter appliance and has at least one front or side mechanical electrical connection and measurement sensor holder (5) for making contact with electrical power connections, such as an external power supply and load connections.
2. (Amended) [A] The converter appliance capacitor assembly as claimed in claim 1, characterized in that at least one electronic circuit (9) - preferably a drive circuit for power semiconductors (11) - is attached to the front mechanical holder (5).
3. (Amended) The capacitor assembly as claimed in claim 1 [or 2], characterized in that the mechanical holder (5) is provided at the front with respect to the capacitor (1).

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JC18 Rec'd PCT/PTO 27 APR 2001

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Capacitor assembly for a converter applianceDescription

- 5 The invention relates to a capacitor assembly for a converter appliance having a capacitor which can be attached by means of side mechanical holders to a base frame or a heat sink.
- 10 A capacitor assembly for a converter appliance has been proposed in German patent application P 198 13 365.0, in which a central, metallic multifunction housing part, which is connected directly to the heat sink of the power semiconductors, is connected to the
- 15 capacitors such that it makes thermal contact. The driver circuits for the power semiconductors and the control and regulating arrangement of the converter appliance are located above the capacitors. These components are connected to the multifunction housing
- 20 part via attachment devices required for this purpose. The multifunction housing part can be designed with or without a power busbar system.
- The invention is based on the object of specifying a
- 25 capacitor assembly for a converter appliance, which allows the converter appliance to have an extremely compact design.
- This object is achieved by a capacitor assembly for a
- 30 converter appliance having a capacitor which can be attached by means of side mechanical holders to a base frame or a heat sink and which has an additional front mechanical holder for attachment of at least one electrical connection of the converter appliance and of
- 35 at least one measurement sensor, in particular of a current transformer and/or voltage transformer.

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The advantages which can be achieved by the invention are, in particular, that the proposed capacitor assembly makes it possible to design a converter appliance such that space is saved, the weight is reduced and costs are reduced. Since the capacitor assembly is itself designed as the load-bearing and central component of the converter appliance, there is no need whatsoever for the mechanical supporting and auxiliary frames which are normally generally used for converter appliances. A further advantage is that the capacitor assembly can be disassembled for recycling.

One advantageous refinement of the invention comprises at least one electronic circuit - preferably a drive circuit for power semiconductors - being attached to the mechanical holder. This embodiment assists the idea of the invention of allowing the capacitor assembly to be designed simply and as compactly as possible.

A further feature of the invention has the same aim, and comprises the mechanical holder being provided at the front with respect to the capacitor.

One modification of this embodiment according to the invention is for the mechanical holder to be arranged at the side on the capacitor.

Depending on the spatial requirements, it may in this case be advantageous for a number of individual holders to be provided at the side on the capacitor. This means that the capacitor assembly according to the invention can be used for a large number of spatial requirements.

The invention will be explained in more detail in the following text with reference to the exemplary embodiments which are illustrated in the drawing, in which:

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Figure 1 shows a perspective view of a capacitor assembly according to the invention;

5 Figure 2 shows a view of the front face of a converter appliance fitted with the capacitor assembly according to the invention;

10 Figure 3 shows a view of a side surface of a converter appliance fitted with the capacitor assembly according to the invention, and

15 Figure 4 shows a perspective view of a further embodiment of the capacitor assembly according to the invention.

20 Figure 1 shows a perspective view of a capacitor assembly. A cubic or cuboid capacitor 1 can be seen, which is connected to side mechanical holders 2, 3 on two opposite side surfaces. The capacitor may be integral, but it is also possible to combine a number of individual capacitors of smaller capacitance to form the capacitor with the desired capacitance. The two side mechanical holders 2, 3 are used for mounting the capacitor assembly on the base frame 4, for example on a heat sink (see item 12 in Figures 2 and 3). The capacitor 1 has a further, front mechanical holder 5, which extends on a face - from now on referred to as the front face - located between the mechanical holders 2, 3.

30 The front mechanical holder 5 of the capacitor assembly is used for attachment of electrical connections 6 (AC voltage connections, DC voltage connections) of the converter appliance and for attachment of measurement sensors. In particular of three current transformers 7 and one voltage transformer 8. Furthermore, a number of electronic circuits 9 are attached to the front mechanical holder 5. These electronic circuits 9 are

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drive circuits for the power semiconductors of the converter appliance.

5 A further, flat electronic circuit 10 is attached to the top face of the capacitor assembly or of the capacitor 1, this being the control and regulating device for driving the power semiconductors.

10 Figure 2 shows a view of the front face of a converter appliance fitted with the capacitor assembly. This shows that the capacitor 1 is mounted via the two side mechanical holders 2, 3 on a heat sink 12 to which a large number of power semiconductors 11, which are arranged side by side, are fitted. In the exemplary
15 embodiment, this is a heat sink 12 which is fitted with cooling plates 13 and is suitable for air cooling. Liquid heat sinks can, of course, also be used.

20 The electrical connections 6 and current transformers 7 mounted on the front mechanical holder 5 are freely accessible on their top face in order to make contact with external power connections (electrical power supply, load connections), normally cable connections, and, on their bottom face, make contact with
25 connections of a busbar system 14 within the appliance. The busbar system 14 provides the electrical connections for the individual power semiconductors 11 and, via a capacitor connection 15 (see Figure 3) at the rear, the electrical connections for the capacitor
30 1.

Figure 3 shows a view of a side surface of a converter appliance fitted with the capacitor assembly. This shows the heat sink 12 with cooling plates 13, the
35 power semiconductors 11 mounted in two rows on the heat sink 12, the capacitor 11 connected to the heat sink 12 via the side mechanical holders 2, 3, the front mechanical holder 5 with a current transformer 7

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attached to it, the busbar system 14 and the rear capacitor connection 15. The side mechanical holder 3 has been removed in order to make it possible to see into the converter appliance.

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Figure 4 shows an embodiment of the capacitor assembly according to the invention, modified from that in Figures 1 to 3. In this case, two individual holders 5' are provided instead of the integral front holder 5 as shown in Figures 1 to 3. These are also used for
10 accommodating the electrical connections 6 of measurement sensors, such as current transformers 7, and a voltage transformer. Furthermore, there are
15 electronic circuits 9 in the region of these individual holders 5'.

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List of reference symbols

- | | | |
|----|----|--|
| | 1 | Capacitor |
| | 2 | Side mechanical holder |
| 5 | 3 | Side mechanical holder |
| | 4 | Base frame |
| | 5 | Front mechanical holder |
| | 6 | Electrical connection |
| | 7 | Current transformer |
| 10 | 8 | Voltage transformer |
| | 9 | Electronic circuit (drive circuit for power
semiconductors) |
| | 10 | Electronic circuit (control and regulating device) |
| | 11 | Power semiconductor |
| 15 | 12 | Heat sink |
| | 13 | Cooling plates |
| | 14 | Busbar system |
| | 15 | Capacitor connection |

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Patent Claims

1. A capacitor assembly for a converter appliance
having a capacitor (1) which can be attached by
means of side mechanical holders (2, 3) to a base
frame (4) or a heat sink (12) and which has an
additional front mechanical holder (5) for
attachment of at least one electrical connection
(6) of the converter appliance and of at least one
measurement sensor, in particular of a current
transformer (7) and/or voltage transformer (8).
2. A capacitor assembly as claimed in claim 1,
characterized in that at least one electronic
circuit (9) - preferably a drive circuit for power
semiconductors (11) - is attached to the front
mechanical holder (5).
3. The capacitor assembly as claimed in claim 1 or 2,
characterized in that the mechanical holder (5) is
provided at the front with respect to the
capacitor (1).
4. The capacitor assembly as claimed in at least one
of claims 1 or 2, characterized in that the
mechanical holder (5) is arranged at the side on
the capacitor (1), for attachment of the
electrical connections.
5. The capacitor assembly as claimed in claim 4,
characterized in that a number of individual
holders (5) are provided at the side on the
capacitor (1).

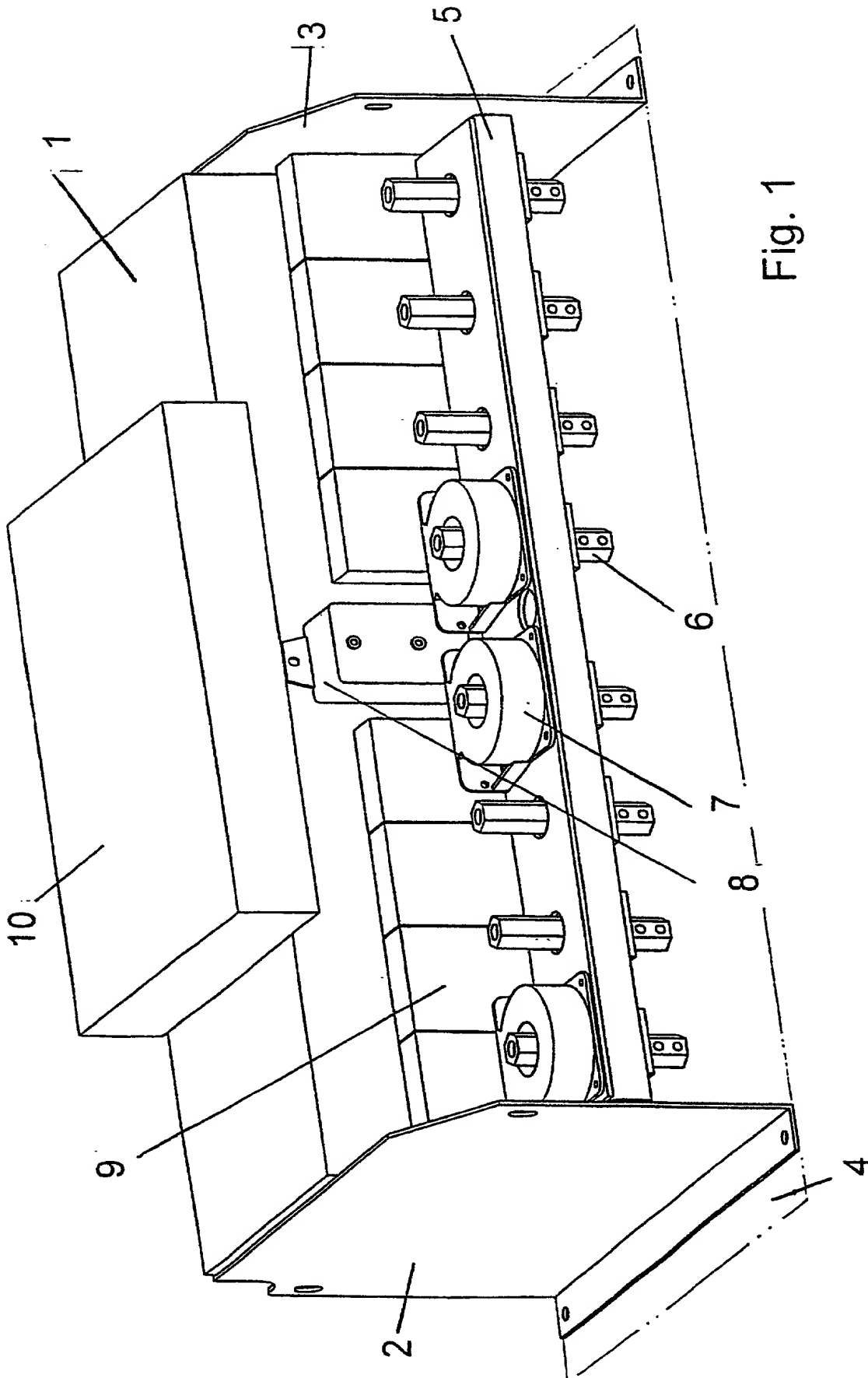


Fig. 1

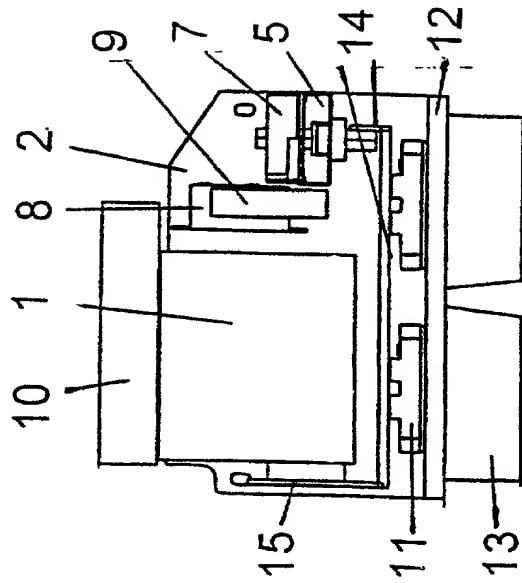


Fig. 3

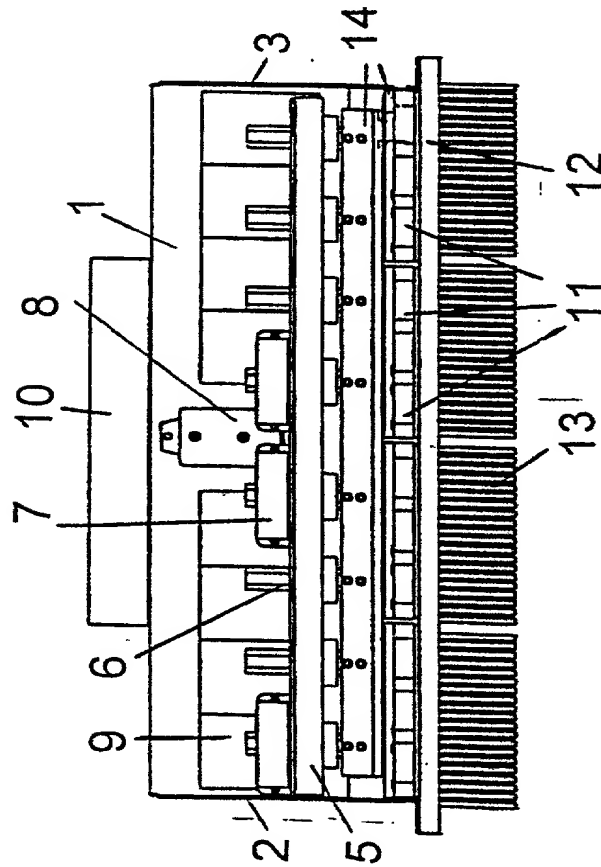
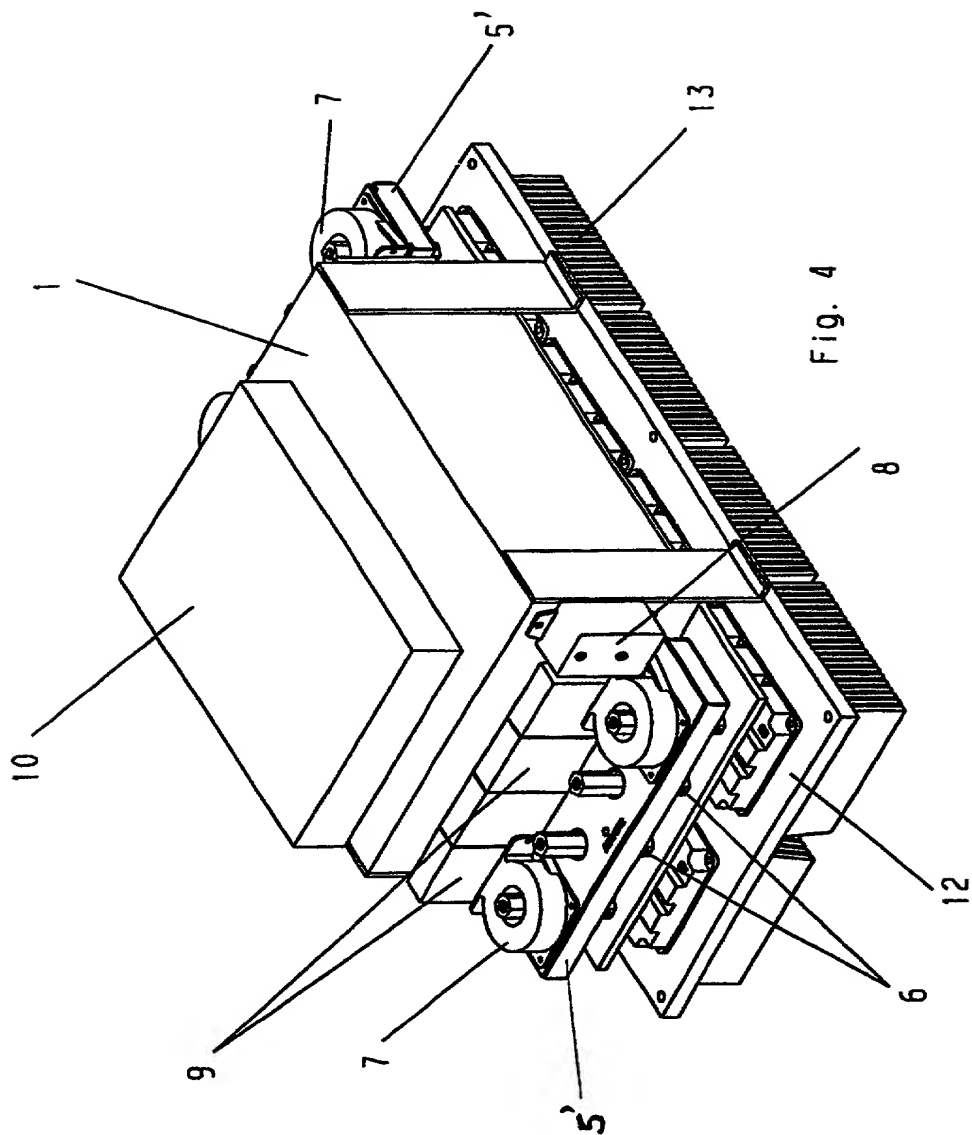


Fig. 2



DOCKET NO. LSP-0010

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of:

Rodscha DRABON, Manfred ZENGERLE and
Johannes SCHOLTEN

Group Art Unit: not yet known

Examiner: not yet assigned

Intl. Appln. No.: PCT/EP99/08089

Intl. Filing Date: 26 October 1999

For: CONVERTER APPLIANCE
CAPACITOR ASSEMBLY

DECLARATION AND POWER OF ATTORNEY

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name; and

I believe that I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a

☒ Utility Patent ☐ Design Patent

is sought on the invention, whose title appears above, the specification of which:

- ☐ is attached hereto.
- ☒ was filed on 26 October 1999 as International Application No. PCT/EP99/08089.
- ☐ said application having been amended on _____.

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose to the U.S. Patent and Trademark Office all information known to be material to the patentability of this application in accordance with 37 CFR §

1.56.

I hereby claim foreign priority benefits under 35 U.S.C. § 119(a-d) of any **foreign application(s)** for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of any application on which priority is claimed:

Priority Claimed (If X'd)	Country	Serial Number	Date Filed
<input checked="" type="checkbox"/>	Germany	198 49 858.6	29 October 1998
<input type="checkbox"/>			
<input type="checkbox"/>			
<input type="checkbox"/>			

I hereby claim the benefit under 35 U.S.C. § 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of 35 U.S.C. § 112, I acknowledge the duty to disclose to the U.S. Patent and Trademark Office all information known to be material to patentability as defined in 37 CFR § 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application:

Serial Number	Date Filed	Patented/Pending/Abandoned

I hereby claim the benefit under 35 U.S.C. § 119(e) of any United States provisional application(s) listed below:

Serial Number	Date Filed
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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of:

Rodscha DRABON, Manfred ZENGERLE and
Johannes SCHOLTEN

Group Art Unit: Not yet known

International Application No.: PCT/EP99/08089

Examiner: Not yet assigned

International Filing Date: 26 October 1999

For: CONVERTER APPLIANCE
CAPACITOR ASSEMBLY

Assistant Commissioner for Patents
Washington DC 20231

Sir:

ASSOCIATE POWER OF ATTORNEY

The undersigned, of the firm WOODCOCK WASHBURN KURTZ
MACKIEWICZ & NORRIS LLP, One Liberty Place - 46th Floor, Philadelphia, Pennsylvania
19103, Attorney and/or Agents for Applicant(s), hereby appoints the following:

Richard E. Kurtz	Registration No. <u>19,263</u>	Lynn A. Malinoski	Registration No. <u>38,788</u>
Dale M. Heist	Registration No. <u>28,425</u>	Anthony J. Rossi	Registration No. <u>24,053</u>
John W. Caldwell	Registration No. <u>28,937</u>	Terence P. Strobaugh	Registration No. <u>25,460</u>
Gary H. Levin	Registration No. <u>28,734</u>	Michael J. Swope	Registration No. <u>38,041</u>
Steven J. Rocci	Registration No. <u>30,489</u>	Michael J. Bonella	Registration No. <u>41,628</u>
Dianne B. Elderkin	Registration No. <u>28,598</u>	Harold H. Fullmer	Registration No. <u>42,560</u>
John P. Donohue, Jr.	Registration No. <u>29,916</u>	John E. McGlynn	Registration No. <u>42,863</u>
Henrik D. Parker	Registration No. <u>31,863</u>	Jonathan M. Waldman	Registration No. <u>40,861</u>
Suzanne E. Miller	Registration No. <u>32,279</u>	Paul K. Legaard	Registration No. <u>38,534</u>
Lynn B. Morreale	Registration No. <u>32,842</u>	Chad Ziegler	Registration No. <u>44,273</u>
Mark DeLuca	Registration No. <u>33,229</u>	Gwilym J.O. Attwell	Registration No. <u>45,449</u>
Joseph Lucci	Registration No. <u>33,307</u>	David N. Farsiou	Registration No. <u>44,104</u>
Michael P. Dunnam	Registration No. <u>32,611</u>	Maureen S. Gibbons	Registration No. <u>44,121</u>
Michael D. Stein	Registration No. <u>34,734</u>	Steven H. Meyer	Registration No. <u>37,189</u>
Albert J. Marcellino	Registration No. <u>34,664</u>	Paul B. Milcetic	Registration No. <u>46,261</u>
David R. Bailey	Registration No. <u>35,057</u>	Joseph R. Condo	Registration No. <u>42,431</u>
Doreen Yatko Trujillo	Registration No. <u>35,719</u>	Michael K. Jones	Registration No. <u>41,100</u>
Barbara L. Mullin	Registration No. <u>38,250</u>	Frank T. Carroll	Registration No. <u>42,392</u>
Michael P. Straher	Registration No. <u>38,325</u>	Mark J. Rosen	Registration No. <u>39,822</u>
Kevin M. Flannery	Registration No. <u>35,871</u>	Mitchell R. Brustein	Registration No. <u>38,394</u>
David A. Cherry	Registration No. <u>35,099</u>	Eric H. Vance	Registration No. <u>47,151</u>
Robert B. Washburn	Registration No. <u>16,574</u>	Peter M. Ullman	Registration No. <u>43,963</u>
Norman L. Norris	Registration No. <u>24,196</u>	Thomas E. Watson	Registration No. <u>43,243</u>

Richard B. LeBlanc	Registration No. <u>39,495</u>
Joseph D. Rossi	Registration No. <u>47,038</u>
Rosaleen P. Morris	Registration No. <u>47,321</u>
George J. Awad	Registration No. <u>46,528</u>
Steven D. Maslowski	Registration No. <u>46,905</u>
S. Maurice Valla	Registration No. <u>43,966</u>
Vincent J. Roccia	Registration No. <u>43,887</u>
Robin S. Quartin	Registration No. <u>45,028</u>
Patrick J. Farley	Registration No. <u>42,524</u>
Gregory L. Hillyer	Registration No. <u>44,154</u>
Susan C. Murphy	Registration No. <u>46,221</u>
David L. Marcus	Registration No. <u>46,897</u>
Christine A. Goddard	Registration No. <u>46,731</u>
Ellen M. Klann	Registration No. <u>44,836</u>
Andrew J. Hagerty	Registration No. <u>44,141</u>

his/her associates with full power to prosecute the above-identified application and to transact all business in the Patent Office connected therewith and requests that correspondence continue to be directed to the firm of WOODCOCK WASHBURN KURTZ MACKIEWICZ & NORRIS LLP at the above address.

Date:

June 5, 2001

Steven B. Samuels

Registration No. 37,711

Woodcock Washburn Kurtz
Mackiewicz & Norris LLP
One Liberty Place - 46th Floor
Philadelphia PA 19103
Telephone: (215) 568-3100
Facsimile: (215) 568-3439

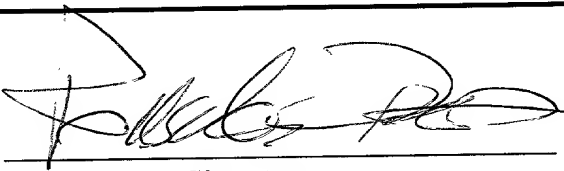
I hereby appoint the following persons of the firm of **WOODCOCK WASHBURN KURTZ MACKIEWICZ & NORRIS LLP**, One Liberty Place - 46th Floor, Philadelphia, Pennsylvania 19103 as attorney(s) and/or agent(s) to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith:

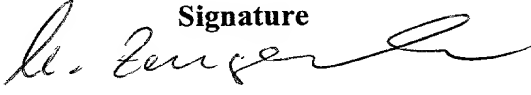
Steven J. RocciReg. No. 30,489Steven B. SamuelsReg. No. 37,711

Address all telephone calls and correspondence to:

Steven B. Samuels**WOODCOCK WASHBURN KURTZ****MACKIEWICZ & NORRIS LLP**One Liberty Place - 46th FloorPhiladelphia PA 19103Telephone No.: **(215) 568-3100**Facsimile No.: **(215) 568-3439**

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Name: <u>Rodscha DRABON</u>	 Signature	
Mailing Address: <i>new address</i> <u>Theresienstrasse 1</u> <i>Grundweg 29</i> <u>D-68535 Neckarhausen</u> <i>33400 Paderborn</i> <u>Germany</u> <i>Germany</i>		Date of Signature: <u>09.05.01</u>
City/State of Actual Residence: <u>Neckarhausen, Germany</u> <i>DEX</i> <u>Paderborn</u>		Citizenship: <u>German</u>

Name: Manfred ZENGERLE	
Mailing Address: Mertesheimer Strasse 27a D-67280 Ebertsheim Germany	Signature  Date of Signature: <u>17. Mai 2007</u>
City/State of Actual Residence: Ebertsheim, Germany <i>DEX</i>	Citizenship: <u>German</u>

Name: Johannes SCHOLTEN	
Mailing Address: Schlegelweg 19 D-67283 Obrigheim, Germany	Signature Date of Signature: _____
City/State of Actual Residence: Obrigheim, Germany	Citizenship: <u>German</u>

